

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
ANGEL et al.) Group Art:
Serial No. Not Assigned) Examiner I
Filed: With Application)

For: PROCESS FOR PREPARING WATER-SOLUBLE OR WATER-DISPERSIBLE
POLYETHER-CONTAINING POLYMERS AND THE USE THEREOF AS COATING
AGENTS, BINDERS AND/OR FILM-FORMING EXCIPIENTS IN PHARMACEUTICAL
DOSAGE FORMS OR PACKAGING MATERIALS OR AS ADDITIVES IN COSMETIC,
DERMATOLOGICAL OR HYGIENIC PREPARATIONS

PRELIMINARY AMENDMENT

Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

Prior to examination of this continuation application, kindly amend the above-identified
application as follows:

IN THE CLAIMS

3. A process as claimed in [either of claims 1 and 2] claim 1, wherein liquid polyethylene glycol is used as solvent for the free-radical initiator at room temperature.
4. The use of the polymers prepared by a process as claimed in claim 1 [any of claims 1 to 3] as coating agents, binders and/or film-forming excipients for pharmaceutical dosage forms.
5. The use of the polymers prepared by a process as claimed in claim 1 [any of claims 1 to 3] as additives to cosmetic, hygienic and/or dermatological preparations.

6. A cosmetic, dermatological, hygienic or pharmaceutical dosage form comprising at least one of the polymers prepared by a process as claimed in claim 1 [claims 1 to 3] in addition to conventional excipients.

REMARKS

The claims have been amended to eliminate multiple dependency. No new matter has been added. A clean copy of the claims is attached.

Entry of the above amendment is respectfully solicited.

Respectfully submitted,

KEIL & WEINKAUF



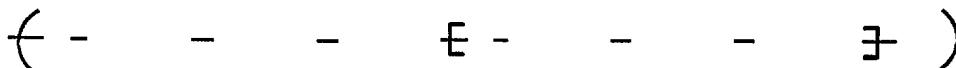
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990115

We claim:

1. A process for preparing graft copolymers of polyvinyl esters by polymerization of
 - a) at least one vinyl ester of aliphatic C_1 - C_{24} -carboxylic acids in the presence of
 - b) polyethers which are solid at room temperature and have the general formula I



in which the variables have the following meaning, independently of one another:

R^1 hydrogen, C_1 - C_{24} -alkyl, R^9 -C(=O)-, R^9 -NH-C(=O)-, polyalcohol residue;

R^8 hydrogen, C_1 - C_{24} -alkyl, R^9 -C(=O)-, R^9 -NH-C(=O)-;

R^2 to R^7

$-(CH_2)_2-$, $-(CH_2)_3-$, $-(CH_2)_4-$, $-CH_2-CH(CH_3)-$, $-CH_2-CH(CH_2-CH_3)-$,
 $-CH_2-CHOR^{10}-CH_2-$;

R^9 C_1 - C_{24} -alkyl;

R^{10} hydrogen, C_1 - C_{24} -alkyl, R^9 -C(=O)-;

A $-C(=O)-O-$, $-C(=O)-B-C(=O)-O-$,
 $-C(=O)-NH-B-NH-C(=O)-O-$;

B $-(CH_2)_t-$, arylene, optionally substituted;

n 1 to 8;

s 0 to 500;

t 1 to 12;

u 1 to 5000;

v 0 to 5000;

w 0 to 5000;

x 1 to 5000;

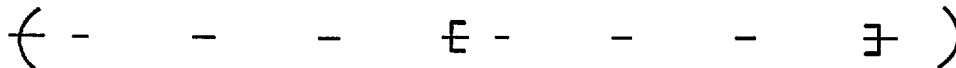
y 0 to 5000;

z 0 to 5000

c) and, where appropriate, at least one other monomer

using a free-radical initiator system, wherein liquid polyalkylene glycol is used as solvent for the free-radical initiator system.

2. A process as claimed in claim 1, wherein the solution of the free-radical initiator system is added continuously throughout the polymerization reaction time.
3. A process as claimed in claim 1, wherein liquid polyethylene glycol is used as solvent for the free-radical initiator at room temperature.
4. The use of the polymers prepared by a process as claimed in claim 1 as coating agents, binders and/or film-forming excipients for pharmaceutical dosage forms.
5. The use of the polymers prepared by a process as claimed in claim 1 as additives to cosmetic, hygienic and/or dermatological preparations.
6. A cosmetic, dermatological, hygienic or pharmaceutical dosage form comprising at least one of the polymers prepared by a process as claimed in claim 1 in addition to conventional excipients.
7. Graft copolymers of polyvinyl esters obtainable by polymerization of
 - a) at least one vinyl ester of aliphatic C₁-C₂₄-carboxylic acids in the presence of
 - b) polyethers which are solid at room temperature and have the general formula I



in which the variables have the following meaning, independently of one another:

R¹ hydrogen, C₁-C₂₄-alkyl, R⁹-C(=O)-, R⁹-NH-C(=O)-, polyalcohol residue;

R⁸ hydrogen, C₁-C₂₄-alkyl, R⁹-C(=O)-, R⁹-NH-C(=O)-;

R² to R⁷

-(CH₂)₂-, -(CH₂)₃-, -(CH₂)₄-, -CH₂-CH(CH₃)-, -CH₂-CH(CH₂-CH₃)-,



R^9 $\text{C}_1\text{-C}_{24}$ -alkyl;

R^{10} hydrogen, $\text{C}_1\text{-C}_{24}$ -alkyl, $\text{R}^9\text{-C(=O)-}$;

A $-\text{C(=O)-O-}$, $-\text{C(=O)-B-C(=O)-O-}$,
 $-\text{C(=O)-NH-B-NH-C(=O)-O-}$;

B $-(\text{CH}_2)_t-$, arylene, optionally substituted;

n 1 to 8;

s 0 to 500;

t 1 to 12;

u 1 to 5000;

v 0 to 5000;

w 0 to 5000;

x 1 to 5000;

y 0 to 5000;

z 0 to 5000

c) and, where appropriate, at least one other monomer

using a free-radical initiator system, wherein liquid polyalkylene glycol is used as solvent for the free-radical initiator system.